

OWNERS

# OPERATING MANUAL

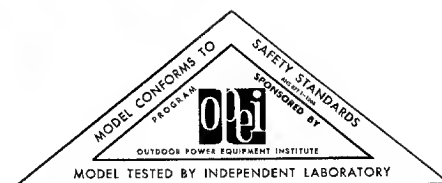
and PARTS LIST

2071

MODEL 10710-0

21 INCH

REEL MOWER



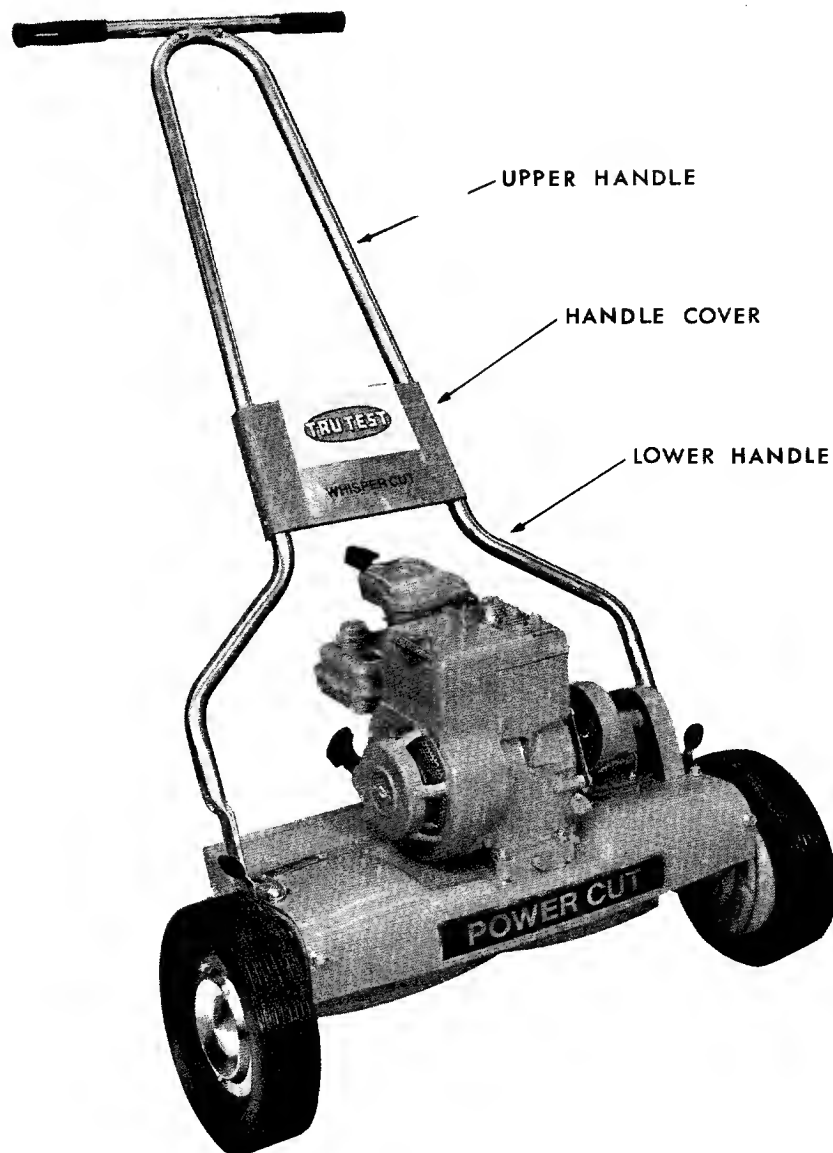
# **IMPORTANT**

## **RULES FOR SAFE OPERATION**

Your Mower is a precision piece of power equipment. Engineering skill and experience have been combined to provide the ultimate in safety and efficiency. As with any type of power equipment, carelessness or error on the part of the operator can result in injury. Exercise extreme caution at all times.

1. **KNOW YOUR MACHINE** — Read the Owner's Manual carefully — learn how to operate your mower properly.
2. **MAKE SURE THE LAWN IS CLEAR** of sticks, stones, wire and other hazardous items before mowing. Such items are dangerous to both the mower and individuals in the vicinity of the mower.
3. **ADD FUEL BEFORE STARTING ENGINE**—never when engine is hot or running.
4. **KEEP AREA OF OPERATION CLEAR** of all persons, particularly small children and pets.
5. **DISENGAGE ALL BLADE AND DRIVE CLUTCHES** so equipped before starting engine.
6. **ALWAYS STOP ENGINE** and disconnect sparkplug wire before making cutting height adjustments.
7. **CHECK ALL NUTS, BOLTS, AND SCREWS** occasionally to be sure mower is in good operating condition.
8. **NEVER OPERATE EQUIPMENT IN WET GRASS.** Always be sure of your footing; keep a firm hold on the handle and walk, never run.
9. **ALWAYS CHECK FOR DAMAGE** if you should strike some foreign object with the blade while moving, stop your mower. Inspect for and repair any damage before restarting and operating the mower.
10. **STOP THE ENGINE** when you leave the equipment. Make certain the blades and all moving parts have stopped.
11. **WHEN MOWING A TERRACE**, slope or incline, mow lengthwise. **DO NOT** mow up or down. Be careful when turning to avoid slipping.

# PREPARING YOUR MOWER FOR USE



## SET-UP

To assemble the handle to the chassis — place the lower handle through the opening in the left hand end plate and slip it over the 1/2 in. dia. trunnion. While holding the stand-up handle latch open — press the right hand side of the lower handle toward the center of the mower until it will fit into the opening in the end plate — place handle through the opening and slip it over the 1/2 dia. trunnion.

With the lower handle section in operating position the upper handle can now be loose assembled to the lower section with the nuts and bolts provided. Fit handle cover in place as shown and tighten bolts securely.

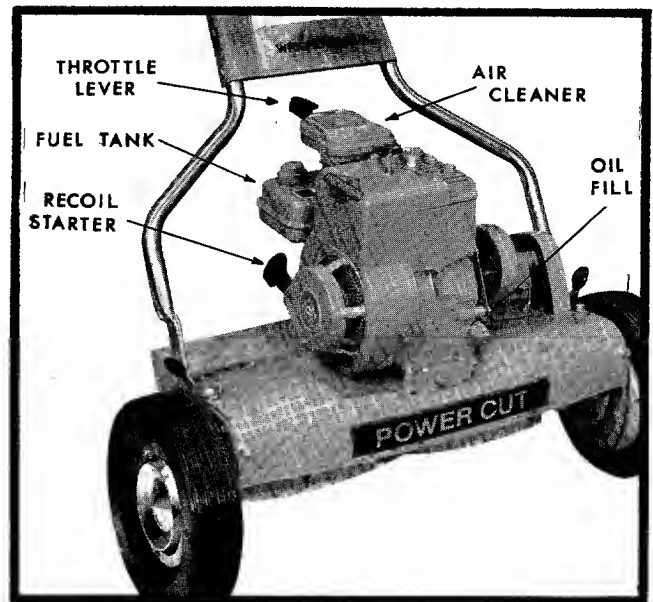
## BEFORE STARTING ENGINE

1. Remove oil fill plug (Fig. 2). Place mower level and fill engine crankcase to top of oil plug with S.A.E. No. 30 oil. Tilt mower to make sure oil flows completely into crankcase. Replace fill plug and tighten.
2. The air cleaner protects the engine against grit and dirt. CAUTION, an extremely dirty air cleaner element may cause engine to stall.

SEE ENGINE INSTRUCTION MANUAL FOR PROPER AIR CLEANER MAINTENANCE.

3. Fill tank with good grade regular, clean fresh gasoline. DO NOT MIX OIL with gasoline.

FOR COMPLETE ENGINE INFORMATION READ ENGINE INSTRUCTION BOOKLET FURNISHED WITH YOUR MOWER BEFORE STARTING OR OPERATING.



## TO START ENGINE

1. Place handle in neutral position with handle down.
2. Set throttle control in start position.
3. Pull starter rope with a smooth, quick full stroke once. Move throttle lever to run position. Pull starter rope again.
4. When engine starts move throttle lever to an idle position until the engine warms up.

## BREAK-IN PERIOD

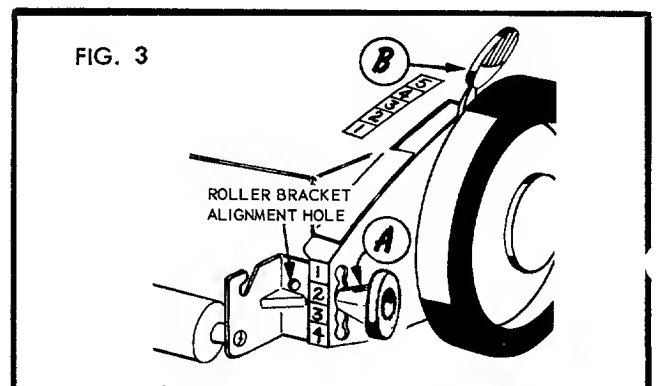
1. During first 10 hours of operation check frequently the following:
  - \* Oil level in engine crankcase.
  - \* Belt adjustment on engine to jackshaft drive. (Page 6)
  - \* Check all bolts, nuts and screws for tightness.

## OPERATING INSTRUCTIONS

TO PROPEL MOWER FORWARD, simply raise the handle . . . TO STOP MOWER, lower the handle.

## TO ADJUST HEIGHT OF CUT

1. Consult the chart located on Page 5, (Fig. 3A) and Fig. 3 shown below. The roller adjusting knobs (A) and wheel adjusting levers (B) must be in positions shown for desired cutting height. EXAMPLE: for 1½" cutting height roller knob must be in No. 2 position, and wheel lever must be in No. 4 position. (Fig. 3 and Fig. 3A)
2. Place mower on hard, flat surface and tilt machine back on roller until wheels are off the ground. Move right hand wheel lever outward to disengage locating pin, then move lever forward or back until it is aligned with proper number on deck label. Release outward pressure on lever and be sure that locating pin seats properly in hole in end plate. Repeat this procedure on left hand side, position lever so that mower is level.
3. Tilt mower forward until roller is off the ground. Turn right hand roller knob counter clockwise 2 full turns and move knob up or down until alignment hole in roller bracket is in line with proper number on label at rear of end plate. (see illustration) Turn knob clockwise until tightened securely. Repeat this procedure for other side.



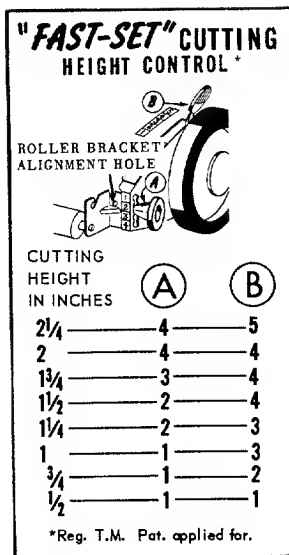


FIG. 3A

## QUALITY OF CUT

Since a reel type mower does not create a lifting action like a rotary mower, it CANNOT lift up and cut tall blades of grass that are bent over. If cutting height is set too high, grass of this nature will not be in position to be drawn between the reel blades and cutter bar and in many cases will be pushed away by the revolving reel. Therefore, to obtain the utmost in performance and lawn appearance, cutting height ABOVE 1 1/2" IS NOT RECOMMENDED except where grass is up-right and dense.

## SERVICE INSTRUCTIONS

ALWAYS REMOVE SPARK PLUG WIRE BEFORE MAKING ADJUSTMENTS—NEVER MAKE ANY ADJUSTMENTS WITH ENGINE RUNNING.

Check your mower frequently to make sure all parts are operating smoothly. Your mower left the factory properly adjusted and properly lubricated to assure you of a smooth clean cutting job. Keep it clean. The mower should be thoroughly cleaned and lubricated at the start of each mowing season for better operation and longer service life.

DO NOT use water to clean the mower—use a broom or brush to remove grass and dirt. When storing mower for any length of time, follow storage instructions in engine instruction booklet.

### CHECKING AND ADJUSTING CUTTER BAR CLEARANCE

When properly set, the cutter bar should almost contact the reel blades. Only on very fine grass should the reel blades touch the cutter bar, and then very lightly so that only a slight scraping noise is heard.

It's easy to check proper cutter bar clearance—just place a piece of newspaper about 2" wide and 6" long, between reel blades and cutter bar—See Step 2. Correct cutter bar clearance should pinch but not cut, the paper at both ends and the middle of the cutter bar. If it doesn't adjust as follows:

## CUTTER BAR ADJUSTMENT

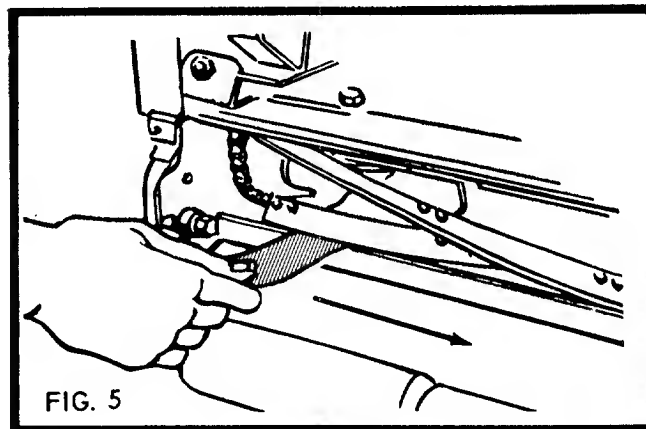
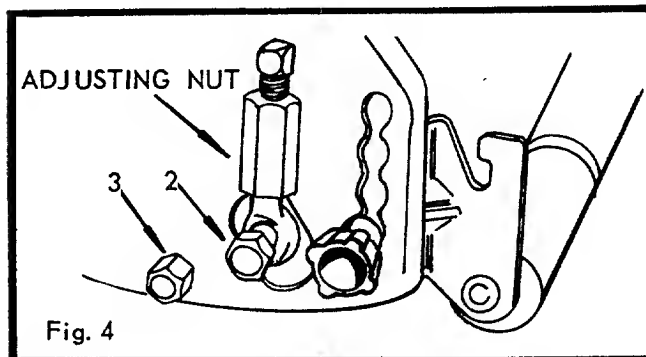
(Fig. 4) Cutter Bar bolts (2 & 3) are tapered and extend beyond the side plate slightly. When these tapered bolts are tight any end play or looseness is eliminated. Be sure these bolts are tight before making adjustments.

### TO TIGHTEN CUTTER BAR

Turn hex adjusting nut counterclockwise.

### TO LOOSEN CUTTER BAR

Turn hex adjusting nut clockwise.



## REEL AND CUTTER BAR PAPER TEST

1. Insert strip of newspaper between cutter bar and reel blades.
2. Turn reel slowly backwards. If the paper is held snugly by each blade then adjustment is correct.
3. Adjust cutter bar so that reel blades pinch paper without cutting it.

## SERVICE

1. Sharpening is required when the mower will not cut satisfactorily without the reel blades wiping on the cutter bar.

SEE PAGE 12 ON HOW TO OBTAIN SERVICE AND REPLACEMENT PARTS.

### NOTE:

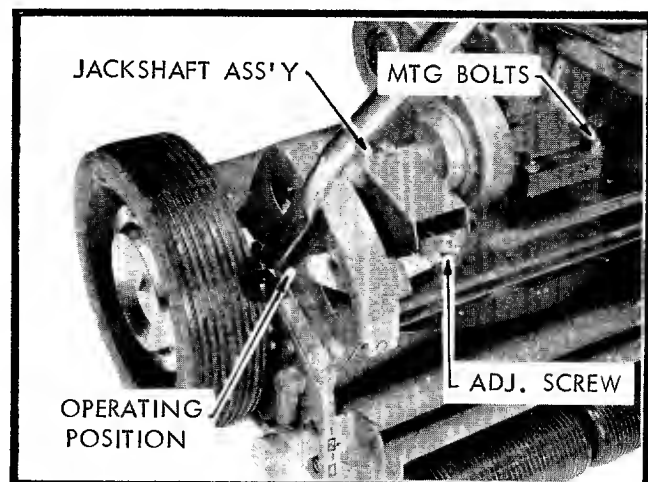
When cutter bar is removed for sharpening, left hand pivot bolt (Item 2 fig. 5) must be turned counterclockwise to be removed. Right hand pivot bolt on right hand side of mower must be turned clockwise.

## IMPORTANT

Your mower has been designed with a stand-up handle (See instructions on Pg. 7). Make sure the mower handle is in the stand-up position before attempting the following adjustments.

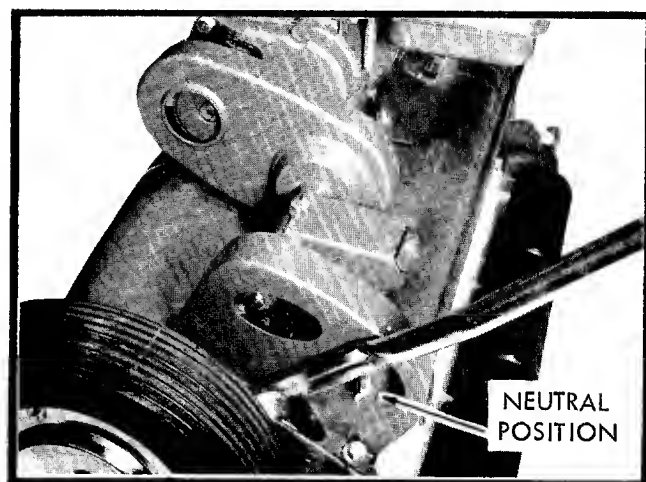
### TO ADJUST CHAIN DRIVE

1. Loosen 4 engine mounting bolts and pull engine back.
2. Loosen 4 jackshaft mounting bolts and pull jackshaft assembly back to tighten chain. Allow  $\frac{1}{8}$  inch of slack in the chain, tighten mounting bolts and nuts securely.
3. Pull engine forward until the belt is tight then tighten the 4 engine mounting bolts securely.



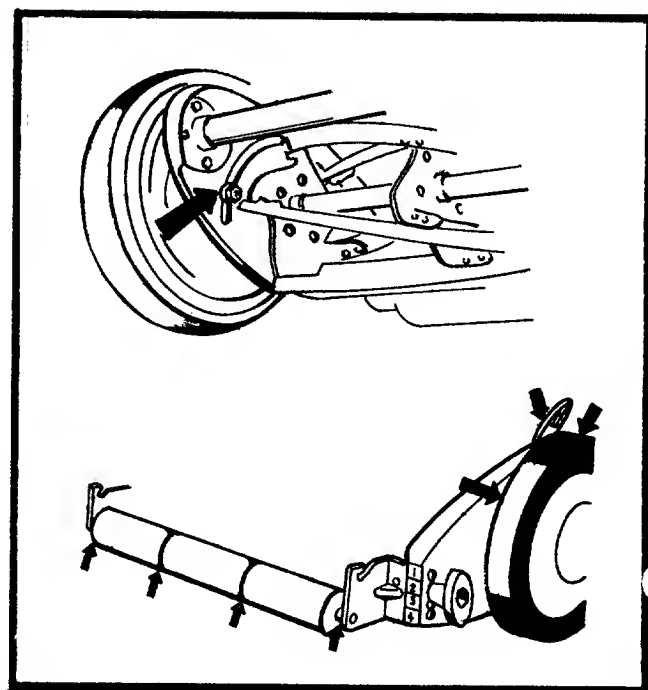
### TO ADJUST BELT DRIVE

1. Check chain — if necessary adjust as described above (To Adjust Chain Drive).
2. If the chain does not need adjusting — loosen the 4 engine mounting bolts and with the handle in the stand-up position pull the engine forward until the belt is tight, then retighten the 4 engine mounting bolts securely.
3. Lower handle to neutral position. Disconnect spark-plug wire and fasten to the engine approx. 1-1/2 inches from the sparkplug. With a slow smooth motion pull the starter rope a few times — watching closely to see if the belt moves with the engine pulley. If the belt does move then a slight adjustment of one or two turns (counterclockwise) of the adjustment screw at the back of the jackshaft assembly must be made. **CAUTION:** Remember the handle must be in the stand-up position before making the adjustment.
4. Repeat Step 3 if necessary until a good disengagement of the belt (neutral position) is obtained, then while holding the adjustment screw — tighten the adjustment screw locknut.



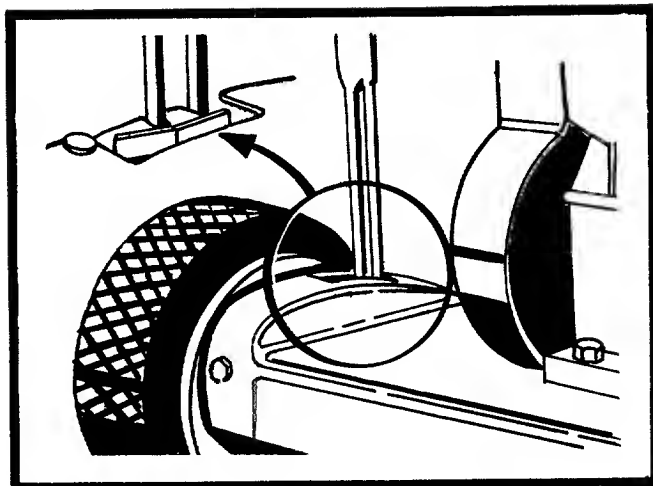
## LUBRICATION

1. Change engine oil (crankcase) after first 5 hours of operating. See engine operating instructions.
2. Check air cleaner frequently.
3. Reel bearings require no attention until mower is serviced.
4. Check jackshaft oiler cup frequently, oil at beginning of mowing season and as needed. Oil roller shaft once or twice a year or as needed.
5. Lightly lubricate with engine oil, points indicated on roller and between end plates and wheel dust covers. Periodic lubrication at these points will insure smooth mechanical operation. (Fig. 8)



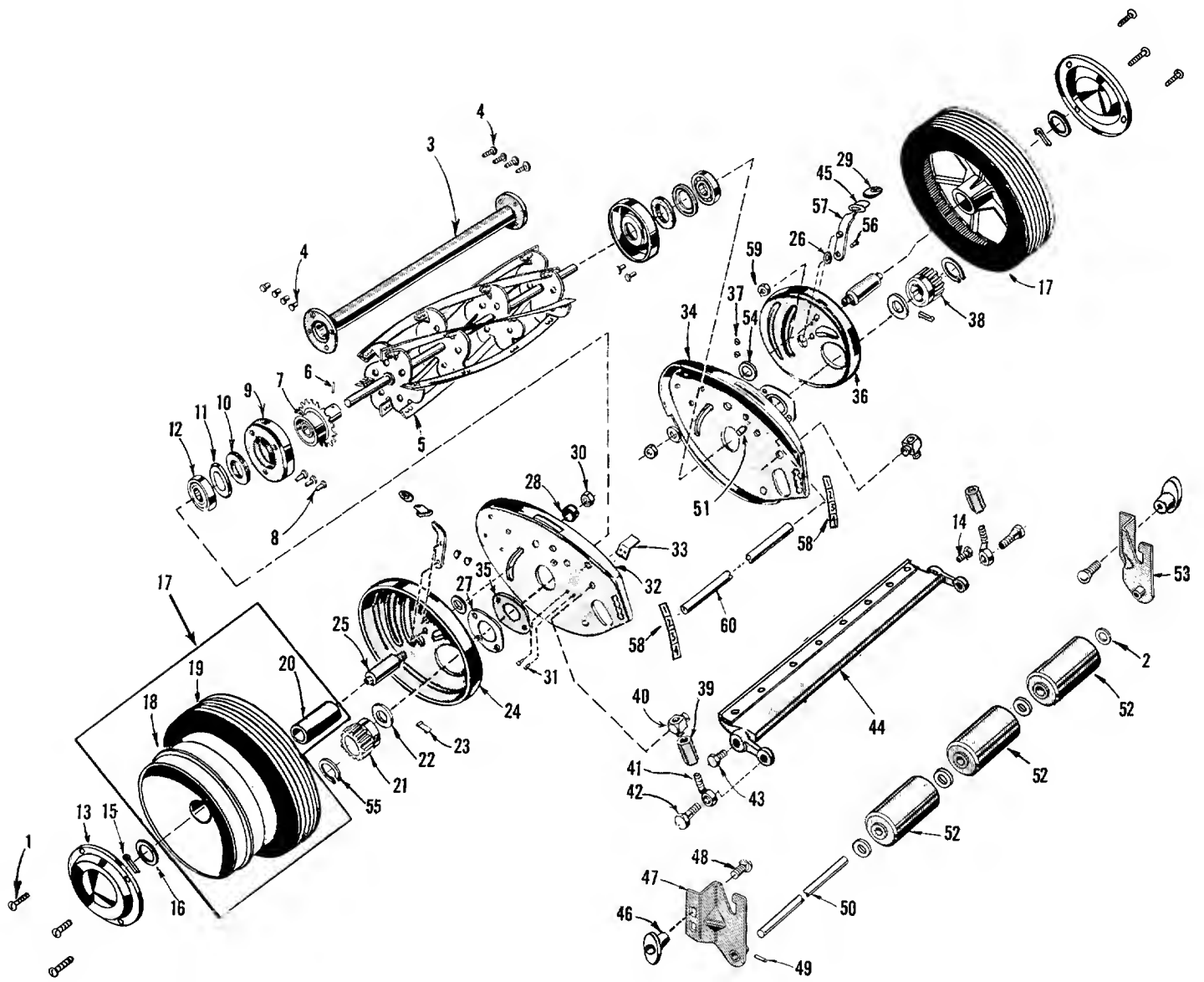
- ## STORAGE

Store your mower in a clean, dry place and keep clean to serve you well. If stored for a length of time, the engine should be drained of fuel. This will prevent the forming of gum deposits on essential parts in the carburetor fuel line and tank, which might affect the efficient operation of your engine when again used.



# Service Record

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ALL UN-NUMBERED PARTS  
INTER-CHANGEABLE WITH  
OPPOSITE SIDE.



# PARTS LIST

## MODEL 10710-0

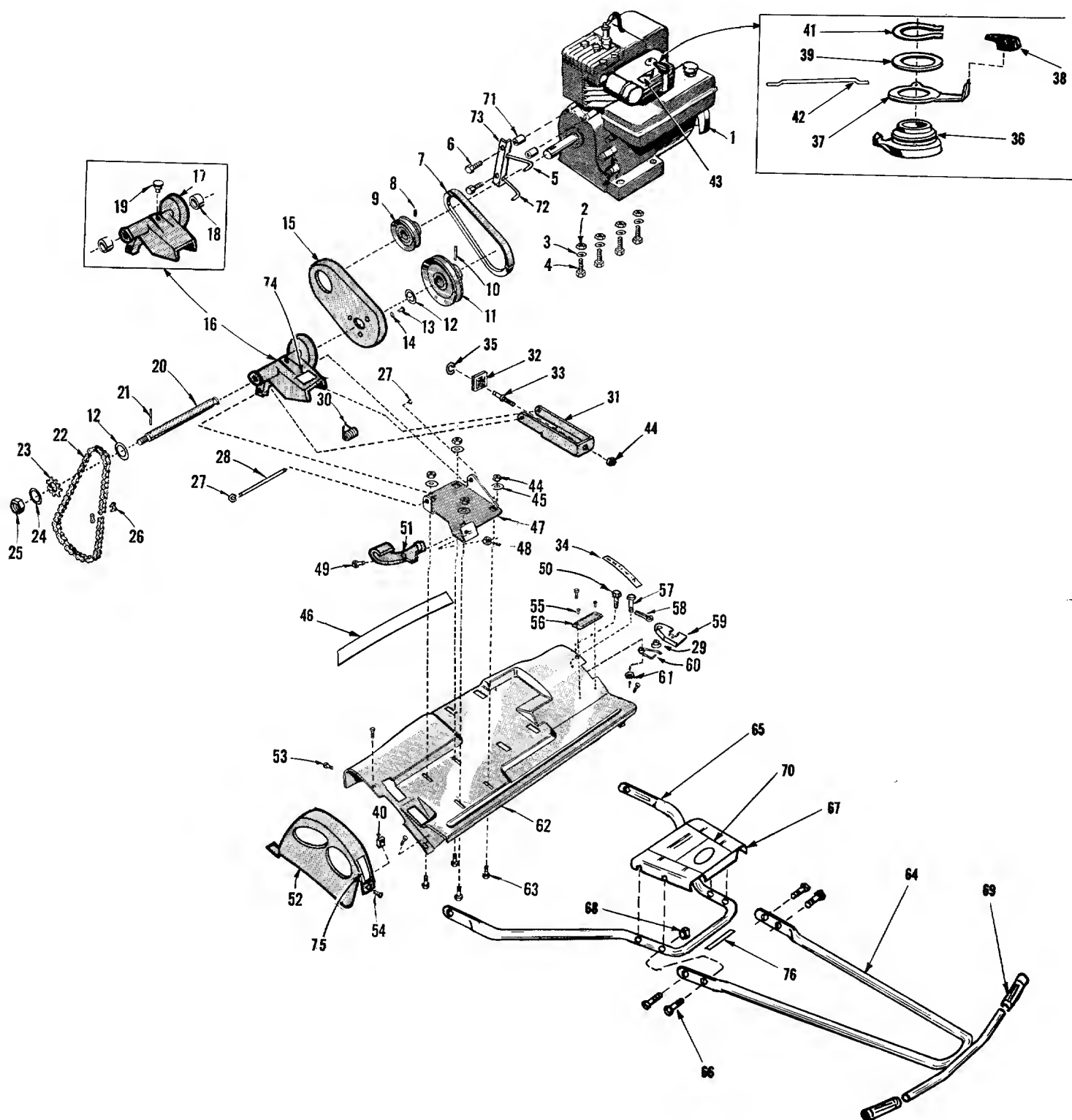
When ordering parts listed as L.H. or R.H.—determine the left or right hand side of your mower by standing behind the unit as you mow.

**Do not use Reference Numbers when ordering Repair Parts, always use Part Numbers.**

REF. NO.	PART NO.	NAME OF PART
1	1511-18	Screw (10-32 x 5/8 Phillips) .....
2	1540-59	Washer—Roller .....
3	1112-19-69	Spacer Tube Assembly .....
4	1530-6	*Rivet (3/16 x 5/8) .....
5	2135-21-69	Reel Assembly .....
6	1548-5	Rollpin .....
7	2121-2-69	Sprocket, Anti-Wind Cup & Hub Ass'y .....
8	1530-20	*Rivet (3/16 x 13/32) .....
9	1629-28	Retainer .....
10	104	Felt Washer .....
11	106	Felt Retainer .....
12	3	Bearing .....
13	2674-26	Hub Cap .....
14	1509-86	Screw Cutter Bar L. H. Thd. ....
15	142	*Cotter Pin (1/8 x 5/8) .....
16	141	Washer .....
17	1108-95-40	Wheel and Tire Assembly .....
18	1110-30-40	Drive Wheel & Bearings Less Tire ..
19	2619-34	Tire .....
20	1652-52	Bearing .....
21	425	Pinion Gear—L.H. ....
22	109	Felt Washer .....
23	323	Pawl .....
24	1118-9-69	Gear Housing—L.H. ....
25	1631-26	Axle .....
26	1540-55	Washer .....
27	1629-41	Retainer .....
28	1657-19	Bushing .....
29	2643-18	Knob—Wheel Adjust .....
30	41-028	Nut .....

REF. NO.	PART NO.	NAME OF PART
31	1117	*Screw (10-32 x 3/8 Sems) .....
32	1129-207-69	End Plate with Trunnions—L.H. ....
33	1723-1	Scraper .....
34	1129-208-69	End Plate with Trunnions—R.H. ....
35	1624-138	Spacer .....
36	1118-8-55	Gear Housing—R.H. ....
37	1657-23	Nylon Bushing .....
38	428	Pinion Gear—R.H. ....
39	1539-31	Nut .....
40	1156-6	Trunnion .....
41	1513-40	Bolt .....
42	453	Screw .....
43	455	Screw Cutter Bar—R.H. Thd. ....
44	3134-23-69	Cutter Bar Assembly .....
45	1622-50	Dust Cover .....
46	1643-23	Roller Adjust Knob .....
47	2132-44-69	Roller Bracket Assembly—L.H. ....
48	1529-25	*Bolt (5/16-18 x 5/8) .....
49	1548-7	Rollpin .....
50	1632-58	Roller Shaft .....
51	1645-37	Trunnion .....
52	2658-13	Roller .....
53	2132-45-69	Roller Bracket Assembly—R.H. ....
54	1540-43	Washer—Special .....
55	1650-21	Retaining Ring .....
56	1509-38	*Screw (#10-32- x 3/8 Hex Hd.) .....
57	1155-14	Spring & Trunnion Assembly .....
58	1616-119	Roller Adjust Label .....
59	1534-8	*Nut (10-32 Gripco) .....
60	2624-112-69	Spacer—End Plate .....

\*Standard Hardware Item—Purchase Locally.



# PRICE LIST

## MODEL 10710-0

When ordering parts listed as L.H. or R.H.—determine the left or right hand side of your mower by standing behind the unit as you mow.

Do not use Reference Numbers when ordering Repair Parts, always use Part Numbers.

REF. NO.	PART NO.	NAME OF PART	REF. NO.	PART NO.	NAME OF PART
1		Engine—Briggs & Stratton Model 60102—Type 0136-01 .....	38	2643-41	Knob—Throttle Control .....
2	70	*Nut (5/16-18 Hex) .....	39	1652-12	Wave Washer .....
3	1025	*Lock Washer (5/16) .....	40	1534-8	*Nut (10-32 Hex Lock) .....
4	1529-11	*Bolt (5/16-18 x 1 3/8 Carriage) .....	41	1650-36	Retaining Ring .....
5	1724-8	Keeper—Belt Upper .....	42	1625-24	Link—Throttle Control .....
6	1509-69	*Screw (1/4-20 x 1 3/4 Fillister Hd.) .....	43	1616-280	Label—Throttle Control .....
7	1651-20	"V" Belt (4L x 18") .....	44	67	*Nut (1/4-20 Hex) .....
8	1508-13	*Set Screw (5/16-24 x 7/32) .....	45	1018	*Lockwasher (1/4) .....
9	1626-40-69	Pulley .....	46	2616-493	Label—Deck .....
10	1548-11	Rollpin .....	47	3609-82-69	Bracket .....
11	2120-34-69	Pulley Assembly .....	48	41-028	*Nut (5/16-24 Hex Lock Gripco) .....
12	1540-17	*Washer (5/8 x 15/16) .....	49	1513-18	Bolt (5/16-24 Hex Shoulder Bolt) .....
13	1511-9	Screw (10-32 x 1/2 Sems) .....	50	1513-41	Bolt (5/16-24 x 3/4 Hex Hd.) .....
14	1540-55	Washer .....	51	2705-26	Lever .....
15	3639-51-69	Belt Guard .....	52	3639-48-69	Guard .....
16	2102-144-69	Jackshaft Housing, Bearings & Oiler Assembly .....	53	1513-8	*Bolt (5/16-24 x 1/2 Hex Hd.) .....
17	3601-122-69	Jackshaft Housing .....	54	117	*Screw (10-32 x 3/8 Phillips Hd.) .....
18	1652-1	Bearing .....	55	1020	*Screw (6 x 1/4 Rd. Hd.) .....
19	1691-2	Oiler .....	56	1605-563	Name Plate .....
20	1632-26	Jackshaft .....	57	1545-23	Clevis Pin .....
21	1546-2	Pin .....	58	1547-4	Cotter Pin .....
22	1654-2	Chain .....	59	2627-21	Latch .....
23	1638-16	Sprocket .....	60	2642-51	Spring .....
24	1036	Washer .....	61	1097	*Washer (3/16) .....
25	1538-16	Nut (7/16-20 Hex Jam) .....	62	5690-10-69	Deck .....
26	1113-13	Connector Link .....	63	1529-15	Bolt (1/4-10 x 5/8) .....
27	1650-10	Retaining Ring .....	64	4117-95-01	Handle—Upper Section .....
28	1547-3	Pin .....	65	3712-18-01	Handle—Lower .....
29	1624-122	Spacer .....	66	1509-22	Bolt (1/4-20 x 1 1/8 Hex Hd.) .....
30	1642-82-69	Spring .....	67	3622-126-69	Cover—Handle .....
31	2609-322-69	Bracket—Striker .....	68	1538-8	Nut (1/4-20 Hex Lock) .....
32	2624-164	Spacer—Adjust .....	69	1710-8	Grip—Handle .....
33	1511-36	Screw—Adjust .....	70	2616-492	Label—Handle Cover .....
34	1616-114	Label—Wheel Adjust .....	71	1624-69	Spacer .....
35	1650-37	Retaining Ring .....	72	1724-10	Lower Belt Keeper .....
36	2610-14	Adaptor .....	73	1606-48	Belt Keeper Bracket .....
37	2705-25-69	Lever—Throttle Control .....	74	1616-449	Label—(Neutral-Caution) .....
			75	1616-441	Label—(Drive-Neutral) .....
			76	1616-442	Label—Lower Handle .....

\*Standard Hardware Item—Purchase Locally.